KARNATAKA TEST HOUSE PVT. LTD.

MATERIAL TESTING LABORATORY

778/44, Gokul 1st Stage, 2nd Phase, 8th Cross, Triveni Road,
Yeshwanthpur, Bangalore - 560 054.

Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/C.AGG/901-1291/2013-2014 **Date: 31.07.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub division,
BBMP, Bangalore – 560 097.

Name of the Project* : Construction of RCC drain, covering slab and Improvements to roads at Venkatagiriyappa Layout 1st and 2nd cross roads in Ward No. 10, Doddabommasandra.

Name of Contractor* : Mr.K.B.Alankar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 26.07.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample confirms to Single Size for IS: Stipulation of 40mm size Aggregate
2	40	85.8	85 to 100	95 to 100	
3	20	18.6	0 to 20	30 to 70	
4	12.5	2.1	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	12.40	Not specified
2	Elongation Index (%)	40	15.34	Not specified
3	Impact Value (%)	40	24.01	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Zodha AE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ನಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ. ಬೆಂಗಳೂರು-97

(SREENIVASA.C)
TECHNICAL MANAGER

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Report No. : KTH/C.AGG/901-1291a/2013-2014 **Date: 31.07.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub division,
BBMP, Bangalore – 97.

Name of the Project* : Construction of RCC drain, covering slab and Improvements to roads at Venkatagiriyappa Layout 1st and 2nd cross roads in Ward No. 10, Doddabommasandra.

Name of Contractor* : Mr.K.B.Alankar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 26.07.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 20mm

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	40	100	100	100	Sample confirms to Single size of IS: Stipulation of 20mm size Aggregate
2	20	88.7	85 to 100	95 to 100	
3	16	45.3	-	-	
4	10	7.6	0 to 20	25 to 55	
5	4.75	1.3	0 to 5	0 to 10	

Sl. No.	Test Conducted	Identification mm	Results %	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	20	9.25	Not specified
2	Elongation Index (%)	20	11.58	Not specified
3	Impact Value (%)	20	21.55	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Sadhna AE

(SREENIVASA.C)
TECHNICAL MANAGER

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ನಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

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Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/F.AGG/901-1292/2013-2014 **Date: 31.07.2013**

TEST REPORT ON AGGREGATE

(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub division,
BBMP, Bangalore – 560 097.

Name of the Project* : Construction of RCC drain, covering slab and Improvements to roads at Venkatagiriyappa Layout 1st and 2nd cross roads in Ward No. 10, Doddabommasandra.

Name of Contractor* : Mr.K.B.Alankar, Bangalore

Source of Sample : Supplied by the Contractor.

Sample Received on : 26.07.2013.

Technical Reference : IS : 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –II as per table 4 of IS-383 – 1970.
2	4.75	94.3	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	80.3	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	64.2	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.60	38.3	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.30	10.2	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.15	1.3	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)	2.00	-

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Jodha AE

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ.
ಬೃ.ಬೆ.ಮ.ಸಂ., ಬೆಂಗಳೂರು-97

(SREENIVASA.C)
TECHNICAL MANAGER

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Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No. : KTH/CEMENT/901-1293/2013-2014 **Date: 03.08.2013**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub division,
BBMP, Bangalore – 560 097.

Name of the Project* : Construction of RCC drain, covering slab and Improvements to roads at Venkatagiriyappa Layout 1st and 2nd cross roads in Ward No. 10, Doddabommasandra.

Name of Contractor* : Mr.K.B.Alankar, Bangalore.

Source of Sample : Supplied by the Contractor.

Type of Cement* : Ordinary Portland cement (OPC)

Brand of Cement* : Birla Super 53 Grade.

Sample Received on : 26.07.2013.

Period of Test : 27.07.2013 to 03.08.2013.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	30 %	Not specified	-
2	Initial setting time	154 minutes	Shall not be less than 30 minutes	P
3	Final setting time	227 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 28.93 MPa 40.47 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	318.24 m^2/kg	Shall not be less than 225 m^2/kg	P
6	Soundness (Le-chatlier's method)	1.00 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

*As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

Zadhav AE

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾ

(SREENIVASA.C.)
TECHNICAL MANAGER

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Tel.: 23378383 Telefax : 23375326, E-mail : kthblr@gmail.com Website : www.karnatakatesthouse.com

Report No.: KTH/ST/901-1294/2013-2014 **Date: 31.07.2013**

PHYSICAL TEST REPORT ON STEEL BARS

Name of the Customer* : **The Assistant Executive Engineer,**
Vidyaranyapura Sub division,
BBMP, Bangalore – 560 097.

Name of the Project* : Construction of RCC drain, covering slab and Improvements to roads at Venkatagiriyappa Layout 1st and 2nd cross roads in Ward No. 10, Doddabommasandra.

Name of Contractor* : Mr.K.B.Alankar, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 26.07.2013.

Nature of Sample* : Reinforcement steel – 8mm & 10mm.

Technical Reference : Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000)
Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)

Grade of Steel* : Fe-500.

TENSILE TEST :

Dia (mm)	**8**	**10**	**Limits as per IS : 1786-2008, Gr. Fe 500**
Weight / unit length (kg/m)	0.410	0.594	8mm – 0.367 Min 10mm – 0.574 Min
Yield Stress (N/mm^2)	537.42	509.55	500 Min
Tensile Strength (N/mm^2)	617.04	573.25	8% More than actual 0.2% proof stress but not less than 545 N/mm^2
% Elongation (on 5.65 $\sqrt{A}$G.L)	20.0	22.0	12.5 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	4 dia	No cracks observed. Passes the test.
2.	10	4 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	8	5 dia	No cracks observed. Passes the test
2.	10	5 dia	No cracks observed. Passes the test.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-97

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Tele Fax : 23378383 / 23375326.
E-Mail : kthblr@gmail.com Web Site : www.karnatakatesthouse.com

Report No. : KTH/CT/1110-2714b/2013-2014 **Date: 14.08.2013**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Vidyaranyapura Sub division,
BBMP, Bangalore – 560 097.

Name of Project* : Construction of RCC drain, covering slab and Improvements to roads at Venkatagiriyappa Layout 1st and 2nd cross roads in Ward No. 10, Doddabommasandra.

Sample Received on : Mr.K.B.Alankar, Bangalore.

Sample Received on : 13.08.2013

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Drain Wall	M_{20}	06.08.2013	13.08.2013	7 days	22500	8.010	332	14.76
2.	"	"	"	"	"	"	8.015	334	14.84
3.	"	"	"	"	"	"	8.020	336	14.93

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959.

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

for KARNATAKA TEST HOUSE PVT. LTD.

(SREENIVASA.C.)
TECHNICAL MANAGER

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ ಪಾ . ಬೆಂಗಳೂರು-97

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TAX INVOICE

(Original)

KARNATAKA TEST HOUSE PVT LTD 2nd Phase, 8th Cross, Triveni Road, Yeshwanthpur, Bangalore -560054 Contact :23375326,23378383 E-Mail :kthblr@gmail.com	Invoice No. e-Sugam No. KTHPL/TI/879/13-14	Dated **29-Aug-2013**
	Delivery Note	Mode/Terms of Payment
	Supplier's Ref. **KTH/TO/1110/13-14**	Other Reference(s)
Buyer **K B Alankar** Sahakara Nagar Kodigehalli Bangalore	Buyer's Order No. **KTH/TO/1110/13-14**	Dated **29-Aug-2013**
	Project Name	Dated
	Despatched through	Destination
	Terms of Delivery	

Sl No.	Description of Goods	Quantity	Rate	per	Amount
1	**Concrete Cubes Compressive Strength**	**3 Nos**	300.00	Nos	**900.00**
	Service Tax 12% Collected		*12*	*%*	**108.00**
	Cess		*3*	*%*	**3.00**
	Total	**3 Nos**			**₹ 1,011.00**

Amount Chargeable (in words) *E. & O.E*

INR One Thousand Eleven Only

Company's PAN : **AAACK6949H**

Declaration
We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

for KARNATAKA TEST HOUSE PVT LTD

Authorised Signatory

This is a Computer Generated Invoice

Jadhav
Ae

KARNATAKA TEST HOUSE PVT LTD
2nd Phase, 8th Cross,
Triveni Road, Yeshwanthpur,
Bangalore -560054
Contact :23375326,23378383
E-Mail :kthblr@gmail.com

Receipt Voucher

No. : **903** Dated : **29-Aug-2013**

Particulars	Amount
Account :	
K B Alankar	**1,011.00**
Agst Ref KTHPL/TI/879/13-14 **1,011.00 Cr**	
Through :	
Cash	
On Account of :	
IR/1110 INV/879	
Amount (in words) :	
INR One Thousand Eleven Only	
	₹ 1,011.00

Authorised Signatory

Checked by:

Verified by

Sadha
AE